UNIVERSITÀ
DI TRENTO
Dipartimento di
Ingegneria Civile, Ambientale e Meccanica

I Nuovi Scenari Climatici

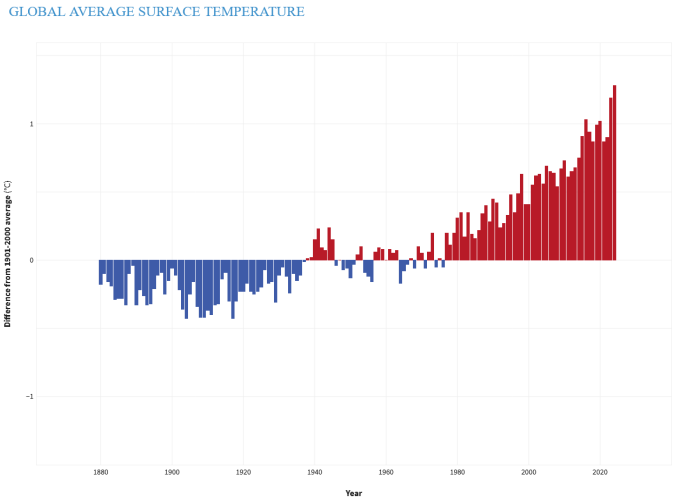
Aria, Clima e Salute: dall'Evidenza Scientifica all'Azione

Lorenzo Giovannini

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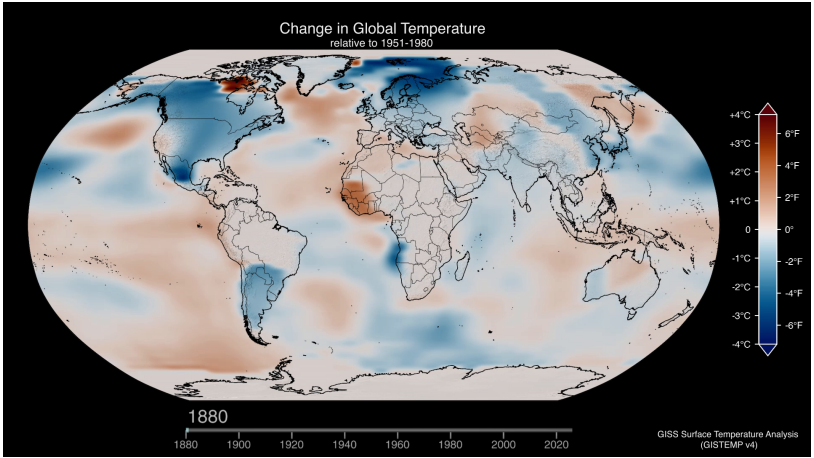
14 Novembre 2026

Cambiamento Climatico a Scala Planetaria



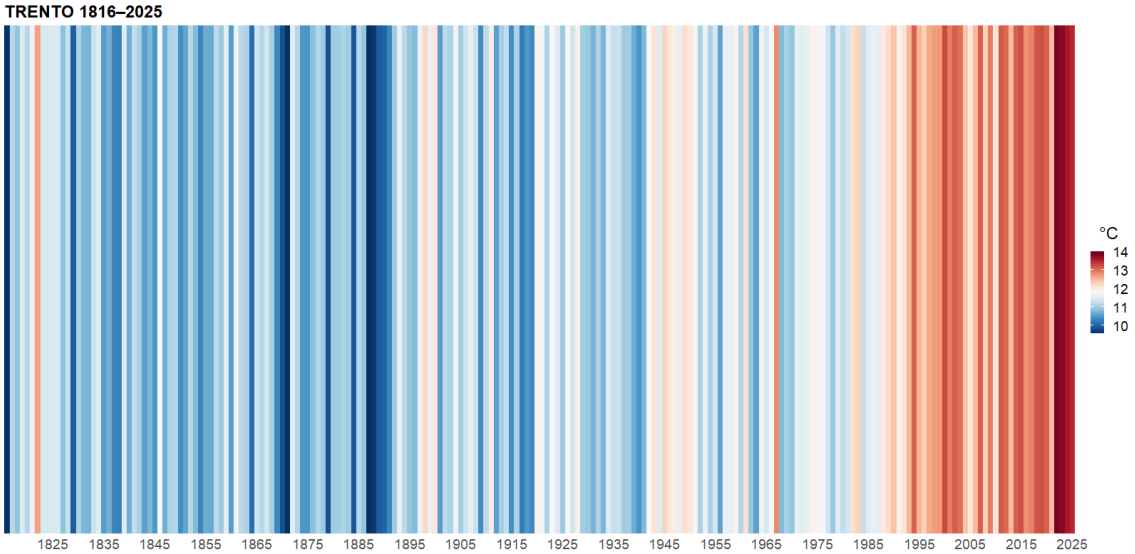
Fonte: NOAA Climate.gov (2025), Climate Change: Global Temperature. Grafico su dati NOAA National Centers for Environmental Information (NCEI). https://www.climate.gov/news-features/understanding-climate/climate-change-global-temperature

Cambiamento Climatico a Scala Planetaria

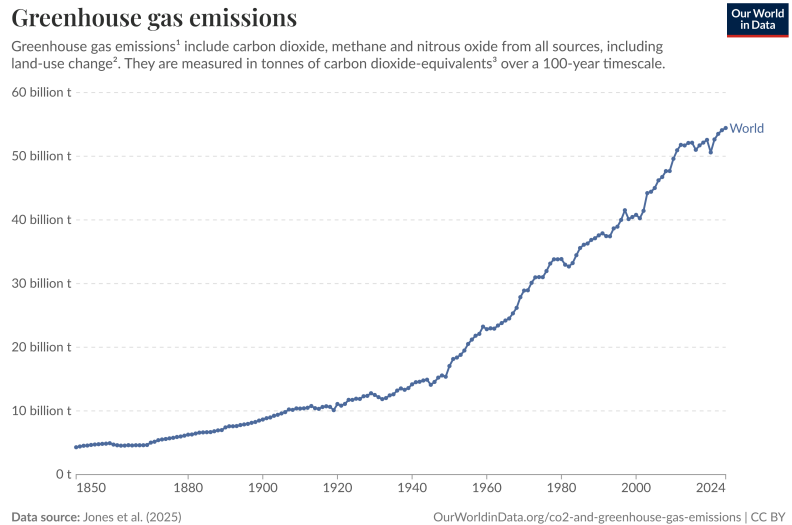


Fonte: NASA's Scientific Visualization Studio (2025), Global Temperature Anomalies from 1880 to 2024. Dati forniti da Robert B. Schmunk (NASA/GSFC GISS). https://svs.gsfc.nasa.gov/5450/

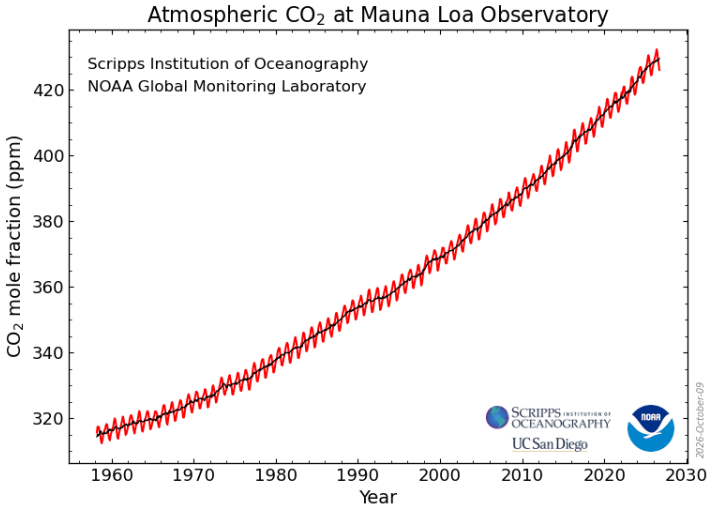
Cambiamento Climatico in Trentino



Emissioni di Gas Serra



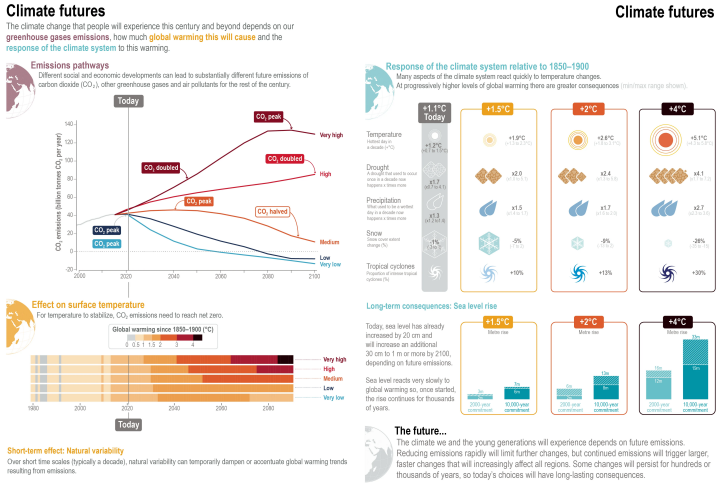
Concentrazioni di CO_2





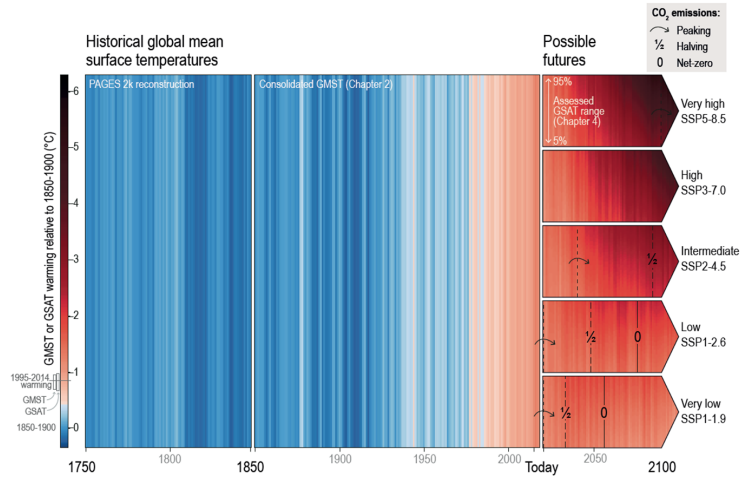
Rielaborazione grafica basata su IPCC AR6 WGI, cap. 1, Cross-Chapter Box 1.4.

Scenari Climatici



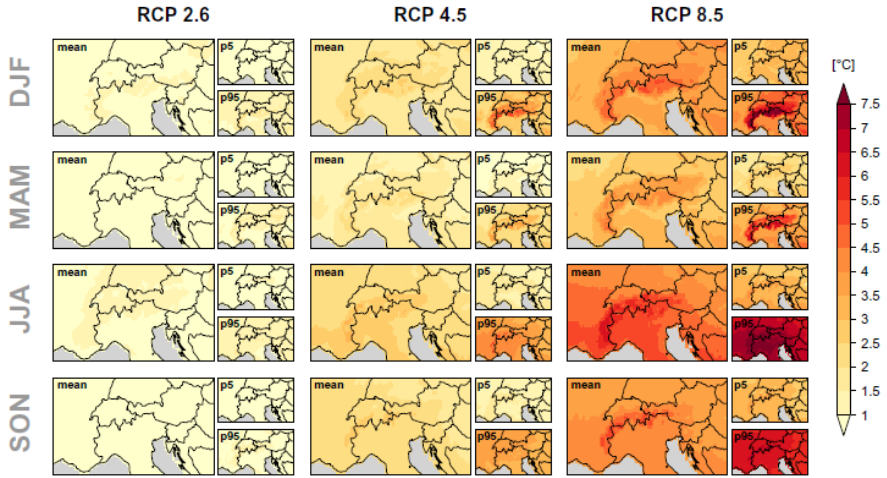
Fonte: IPCC (2021), Technical Summary, Infographic TS.1, pp. 88-89. In: Climate Change 2021: The Physical Science Basis. Cambridge University Press. https://doi.org/10.1017/9781009157896.002. Licenza CC BY-NC-ND 4.0: https://creativecommons.org/licenses/by-nc-nd/4.0/

Scenari Climatici



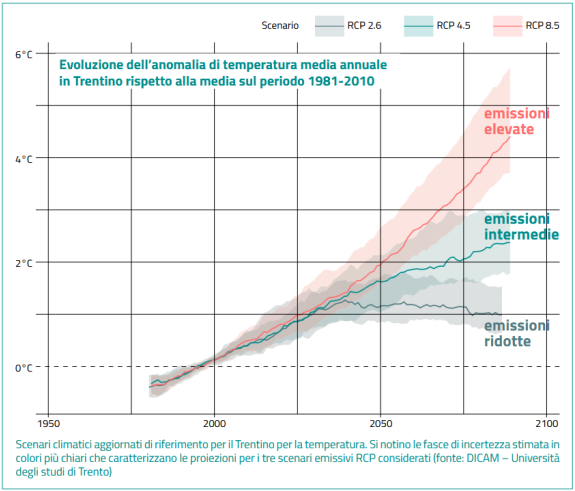
Fonte: Chen et al. (2021), capitolo 1, Figura 1.25. In: IPCC, Climate Change 2021: The Physical Science Basis. Cambridge University Press. https://doi.org/10.1017/9781009157896.003. Licenza CC BY-NC-ND 4.0: https://creativecommons.org/licenses/by-nc-nd/4.0/

Proiezioni Climatiche per l'Area Alpina



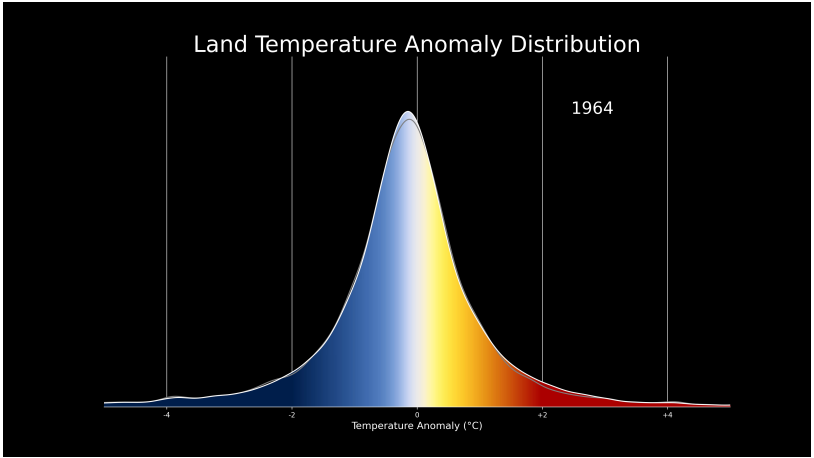
Fonte: Kotlarski et al. (2023), Climate Dynamics, 60, 65-86, Fig. 4. https://doi.org/10.1007/s00382-022-06303-3. Licenza CC BY 4.0: https://creativecommons.org/licenses/by/4.0/

Proiezioni Climatiche per il Trentino

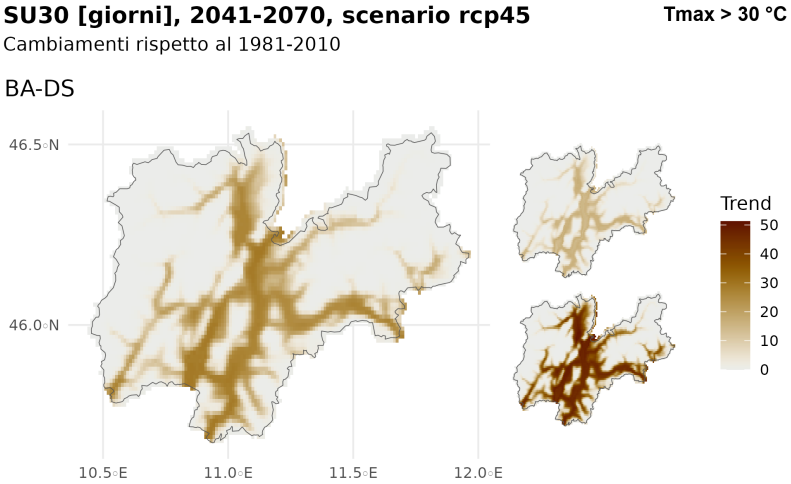


Fonte: Provincia autonoma di Trento - APPA (2025), Lo stato del clima in Trentino.
https://www.appa.provincia.tn.it/Documenti-e-dati/Documenti-tecnici-di-supporto/Lo-stato-del-clima-in-Trentino

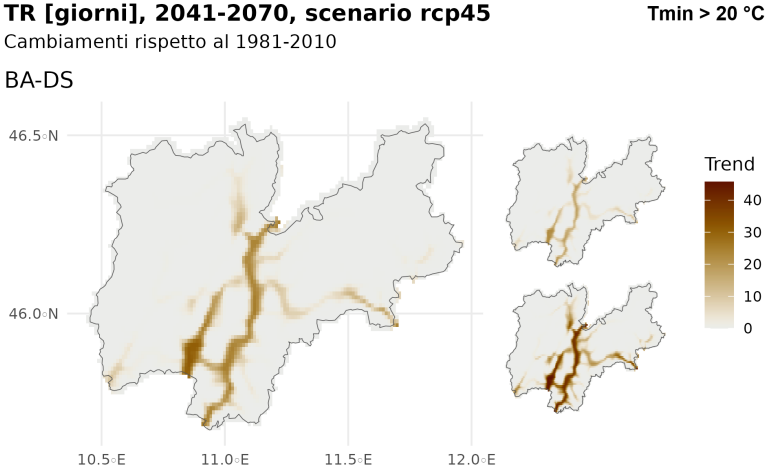
Cambiamento Climatico e Ondate di Calore



Fonte: NASA's Scientific Visualization Studio (2025), Shifting Distribution of Land Temperature Anomalies, 1964-2024. svs.gsfc.nasa.gov/5452.

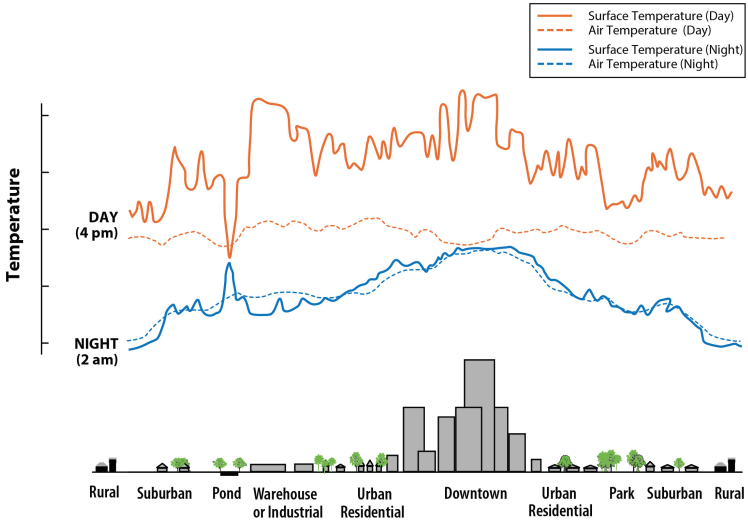


Fonte: Bellin, A., Majone, B., Matiu, M., Napoli, A. e Zardi, D. (2024), Sintesi degli studi sui cambiamenti climatici e i loro impatti ed elaborazione di scenari climatici di riferimento per il Trentino, Parte B, report finale. Universitá di Trento, DICAM, Fig. 3.10, p. 33, estratto BA-DS.

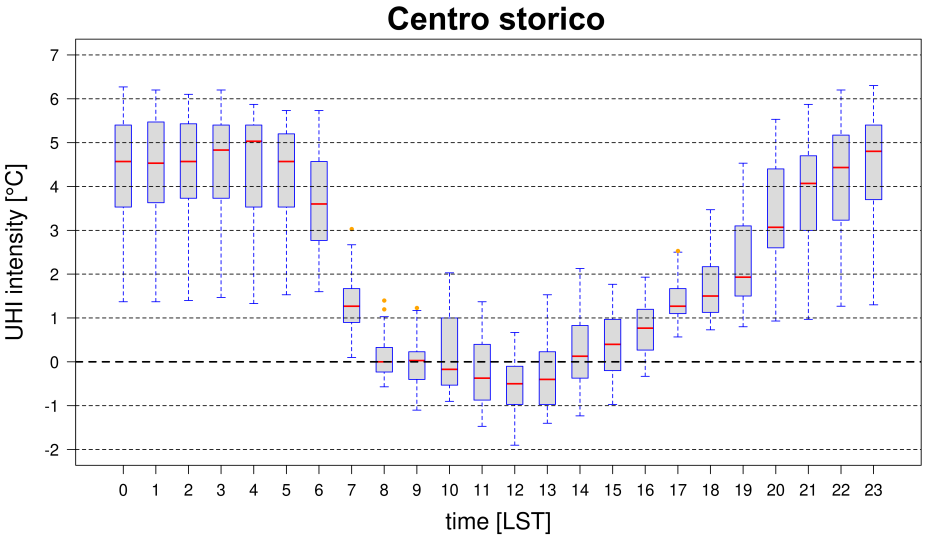


Fonte: Bellin, A., Majone, B., Matiu, M., Napoli, A. e Zardi, D. (2024), Sintesi degli studi sui cambiamenti climatici e i loro impatti ed elaborazione di scenari climatici di riferimento per il Trentino, Parte B, report finale. Universitá di Trento, DICAM, Fig. 3.11, p. 33, estratto BA-DS.

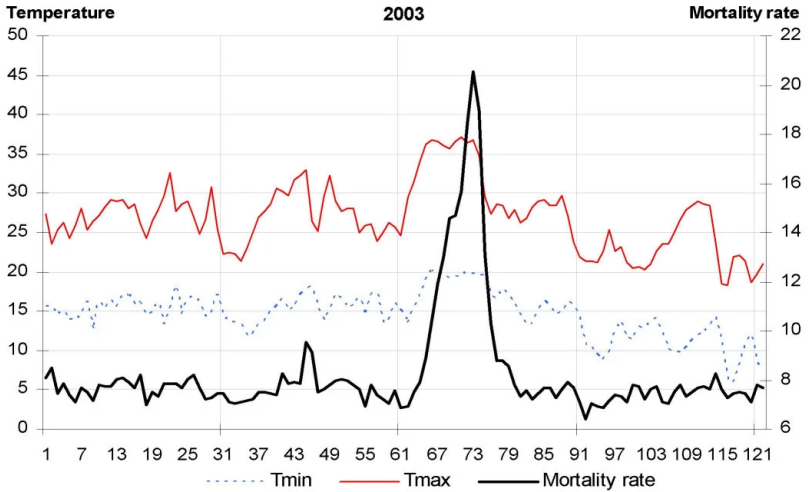
L'Isola di Calore Urbana



Fonte: U.S. Environmental Protection Agency (EPA), pubblico dominio.

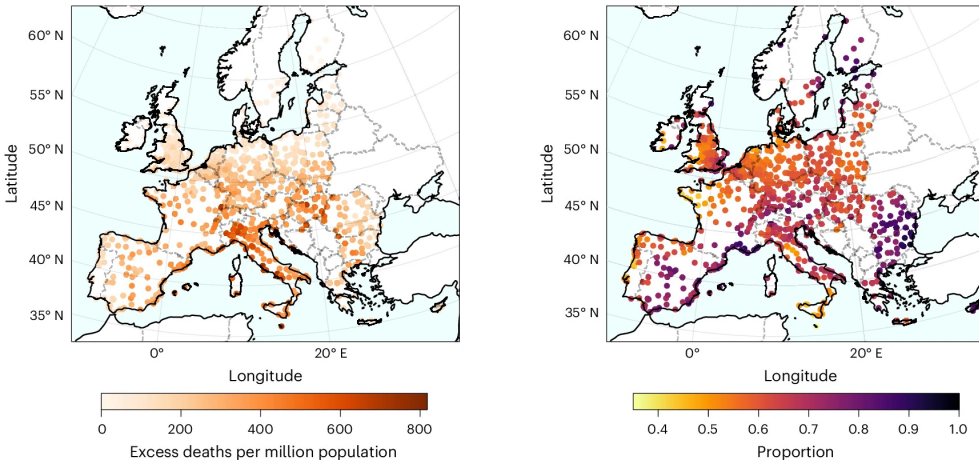

Centro storico
UHI intensity [°C]
7
6
5
4
3
2
1
0
-1
-2
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
time [LST]

Ondate di Calore e Mortalitá: Estate 2003



Fonte: Fouillet et al. (2007), BMC Public Health, 7, 114, pannello 2a estratto dalla figura originale.
https://doi.org/10.1186/1471-2458-7-114. Licenza CC BY 2.0: https://creativecommons.org/licenses/by/2.0/

Ondate di Calore e Mortalitá: Estate 2026



Fonte: Barnes et al. (2026), Nature Health, Fig. 1, pannelli c,d estratti dalla figura originale. https://doi.org/10.1038/s44360-026-00220-z. Licenza CC BY 4.0: https://creativecommons.org/licenses/by/4.0/

GRAZIE PER L'ATTENZIONE!

